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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

1 C1 C2	1			
Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date(day/month	/year) Priority date (day/month/year)		
PCT/KR2004/002018	11 AUGUST 2004 (11.08.2	004) 11 AUGUST 2003 (11.08.2003)		
International Patent Classification (IPC	c) or national classification and IPC			
IPC7 A01K 67/027				
Applicant				
AVICORE BIOTECHNOLO	GY INSTITUTE INC. et al			
Authority under Article 35 and	ransmitted to the applicant according			
2. This REPORT consists of a total	of3 sheets, including	g this cover sheet.		
3. This report is also accompanied				
1 1 1	•	of sheets, as follows:		
	ntaining rectifications authorized by	nich have been amended and are the basis for this report this Authority (see Rule 70.16 and Section 607 of the		
	•	Authority considers contain an amendment that goes		
beyond the disc	losure in the international application	as filed, as indicated in item 4 of Box No. I and the		
Supplemental E		pe and number of electronic carrier(s))		
		a computer readable form only, as indicated in the		
Supplemental Box rela	ating to Sequence Listing (see Section	802 of the Administrative Instructions).		
4. This report contains indications Box No. I Basis of the	_			
	етероп	•		
Box No. II Priority				
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
<u> </u>	nity of invention			
Box No. V Reasoned citations	statement under Article 35(2) with rand explanations supporting such state	egard to novelty, inventive step or industrial applicability;		
Box No. VI Certain d	ocuments cited ·			
Box No. VII Certain d				
Box No. VIII Certain o	bservations on the international applic	cation		
Date of submission of the demand	Date of	completion of this report		
19 JANUARY 2005	5 (19.01.2005)	24 MAY 2005 (24.05.2005)		
Name and mailing address of the IPE	A/KR Author	ized officer		
Korean Intellectual Prop 920 Dunsan-dong, Seo-g Republic of Korea	erty Office	EE, CHUNG HO		
Facsimile No. 82-42-472-7140		one No. 82-42-481-8160		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International aplication No. PCT/KR2004/002018

Box No.	I Basis of the report
1. With other	regard to the language, this report is based on the international application in the language in which it was filed, unless rwise indicated under this item. This report is based on translations from the original language into the following language
to the	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not sed to this report): the international application as originally filed/furnished
	the description: pages as originally filed/furnished pages* received by this Authority on pages* received by this Authority on the claims: pages as originally filed/furnished
	pages*
3.	the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):
* If item	4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International aplication No. PCT/KR2004/002018

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement				
	Novelty (N)	Claims	1-15		YES
		Claims			NO
	Inventive step (IS)	Claims	1-15	A.	ÝES
		Claims			NO
	Industrial applicability (IA)	Claims	1-15		YES
		Claims			NO

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this written opinion:

D1: US 6,316,692 B1 (Carol W. Readhead & Rovert Winston), 13 Nov. 2001

D2: P.N.A.S. (Nagano M. et al.), 06 Nov. 2001

D3: WO 03/024199 A2 (AVIGENICS, INC.), 27 Mar. 2003

I. Novelty and Inventive Step

Claims 1-15 of the present invention relate to a method for producing an avian chimera using spermatogonial cells; an avian chimera; and a method for producing a transgenic aves.

Document D1 and D2 disclose transgenic mice produced by male germ-line stem cells; and a method for producing a transgenic mouse. And, D3 provides a method for producing a transgenic avian using sperm-mediated transfection.

Compared with the present invention, none of the above-mentioned prior art documents disclose a method for producing an avian chimera using spermatogonial cells; an avian chimera; and a method for producing a transgenic aves. In addition, the present invention is not considered to be easily invented by a person skilled in the art by using the teachings of D1, D2 and D3.

Therefore, the subject matter of claims 1-15 of the present application comply with the requirements of novelty and inventive step under PCT Article 33(2) and (3).

II. Industrial Applicability

There is no reason for forming a negative opinion about the industrial applicability of this invention. Consequently, claims 1-15 appear to meet the requirement of PCT Article 33(4).